



## THE CITY OF LYNCHBURG, VIRGINIA

525 Taylor Street, Lynchburg, VA 24501  
www.lynchburgva.gov  
TEL: 434-455-4250  
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UTILITIES DIVISION

November 30, 2005

Mr. Tom Henderson, Regional Director  
South Central Regional Office  
Department of Environmental Quality  
7705 Timberlake Road  
Lynchburg, VA 24502

Re: Consent Special Order  
FY 05 CSO Plan Implementation Progress Report

Dear Mr. Henderson:

The City of Lynchburg submits the following CSO Program Annual Report for FY 05 as required by Appendix A to the captioned Order. Specific detail is provided in the following sections:

### **Section 1: Consultant's Financial Compliance Report**

Submittal of the Financial Compliance Report findings will be delayed until the end of December.

### **Section 2: CSO Project Status**

This section lists the status of CSO control projects for which funds have been obligated as required by paragraph 2 of Appendix A of the Order. Phase 1 of the Citywide Rainleader Disconnect project has been completed. Phase 2 was implemented in September 2000. Construction of all major combined Interceptor sewers, except for the James River Interceptor, has been completed. To date, 32 separation construction projects have been completed, are under design or construction. Of the original 132 overflow points, 97 have been eliminated, leaving 35 overflow points to be closed in the future. The City's sewer model was not updated in 2005.

#### **A. Rainleader Disconnection Program**

The Rainleader Disconnection Program (RDP) is a four-phase program designed to enlist citizen participation in the solution to Lynchburg's Combined Sewer Overflow (CSO) problem. City Council formally adopted policies and guidelines for the Program on May 14, 1996. During the report period, an additional 60,556 square feet of impervious area was disconnected which equates to 8,468,228 square feet or 59.4% of the 14,255,862 total square feet of connected area.

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**B. Interceptor Replacement Program (Status through November 1, 2005 and ranking per CSO Study Update 2000 Report)**

<u>Priority Ranking</u>	<u>Status</u>	<u>Project</u>
1	Construction Complete	Blackwater 1 & 2
2	Construction Complete	Fishing Crk - Phase I - Div. 1
3	Construction Complete	Blackwater 3 & 4
4	Construction Complete	Blackwater 5
5	Construction Complete	Fishing Crk - Phase I - Div. 2
6	Construction Complete	Blackwater 8A
7	Construction Complete	Fishing Crk - Phase I - Div. 3
8	Construction Complete	Fishing Crk - Phase I - Div. 4
9	Construction Complete	Blackwater 8B
10	Construction Complete	Ivy Creek 1A
11	Construction Complete	Ivy Creek 1B
12	Construction Complete	Ivy Creek 2
13	Construction Complete	Blackwater 7
14	Construction Complete	Ivy Creek 3
15	Construction Complete	Blackwater 6
16	Construction Complete	Fishing Crk - Phase I - Div. 5
17	Redesign 100% Complete	James River Div. 1
18	Redesign 100% Complete	James River Div. 2
19	Design 100% Complete	Blackwater Creek Outfall- Meeting House Branch
20	Design 16% Complete	James River Div. 3 (design halted)
21	PER completed	James River Div. 4, 5, 6
22	Design 100% Complete	Blackwater Creek Outfall – Monroe & 1 <sup>st</sup> Street
23	Construction Complete	Pigeon Creek Phase II 2A
	Construction Complete	Pigeon Creek Phase II 2B
24		Fishing Creek Phase II- Kemper Street
25		Fishing Creek Phase III- Mayflower Dr.
26		Blackwater Creek Outfall- Randolph & Savoy Pl.
27		Blackwater Creek Outfall- Belfield Pl
28	Partial project completed	Blackwater Creek Outfall- Jefferson Park (Hillcrest Ave completed)

**C. Separation/Rehabilitation Program (Status through November 1, 2005 and ranking per CSO Study Update 2000 Report)**

<u>Priority Rank</u>	<u>Project</u>	<u>Priority Rank</u>	<u>Project</u>
	(Pilot) 1-C (A) (completed)	31	1-D-3.2
	(Pilot) 1-A-4(A) (completed)	32	1-A-5.2
1	(Pilot) 7.2 (completed)	33	1-A-5.1
2	(Pilot) 6.4 (completed)	34	16.3
3	11.1A - (completed)	35	1-D.3
	11.1B - (completed)	36	17.1
4	14.3 - (completed)	37	16.1
5	14.2 - (completed)	38	16.5
6	18.3 - (completed)	39	S-1-A-1
7	7.3- (completed)	40	17.4
8	7.1 – (completed)	41	17.3
9	6.3 – (completed)	42	1-D-5.1
10	6.2 – (completed)	43	5.4
11	6.1 -(completed)	44	5.3
12	11.3- (completed)	45	5.2
13	5.4 A- Kemper St. – (completed)	46	5.1
14	S-1-A-2 (Upper 9 <sup>th</sup> St) – (completed)	47	S-1-A-4
15	Cross Town Connector-(on hold)	48	1-C
16	11.2 - (completed)	49	S-1-A-3
17	17.2- (completed)	50	16.7
18	3.1 - (completed)	51	2.1
19	1-D-3.3 - (completed)	52	1-B-2.1
20	12.5- (completed)	53	7.4
21	12.4-(completed)	54	14.1
22	12.3- Construction 75% Complete	55	1-B-1.1
23	12.2 – Construction 40%	56	1-D-6.1
24	12.1- Construction 2% Complete	57	1-D-2
25	18.2 – Construction 35% Complete	58	1-D-1
26	8.1 (A) Design 100% Complete	59	1-B-5.1
	8.1 (B) Design 100% Complete		
	8.1 (C) Design 100% Complete		

27	1-D-3.1 –Under Design 1% Complete
28	1-D.4- Under Design 1% Complete
29	1-B-4.1
30	2.2

NOTE: The following CSO point was closed in the report year (102).

**D. Adjustments of CSO Implementation Priorities**

In the 2000 Update Study, the City requested a change to the priority projects listing to accommodate three important City projects, all located within the combined sewer area of the City. The remaining project, the Cross-town (now Mid-town) Connector Sewer, has not been scheduled due to the continued delay of the associated VDOT project.

**E. James River Interceptor**

The replacement of the James River Interceptor (JRI) continues to be delayed. Plans for the redesign of Divisions 1 & 2 to meet CSX Railway conditions have been completed and have been submitted to CSX for review. The City has requested approval from DEQ for eligibility for an engineering design contract for replacement of Divisions 4, 5, & 6 of the Upper JRI.

**Section 3: Proposed Sewer Fund Appropriations for FY 06**

Paragraph 3 of Appendix A of the Order requires the City to show the proposed implementation and schedule of CSO control projects to begin in the next fiscal year. The total amount to be appropriated for FY 06 CSO Program projects is \$12,200,000. The City continues to be active in pursuing grant funding at the federal and state level. The City continues to work with the Virginia Clean Water Revolving Loan Fund to obtain low interest and no interest loans for CSO and water quality projects. No additional Federal or State grant awards were made to the City in the report period. The following funds have been **appropriated** in the current FY 06 Sewer Capital Projects Plan:

**A. CSO Program Projects:**

1) Separation/Interceptor Projects	\$12,100,000
2) Rainleader Disconnect Program	100,000

Sub-total: \$12,200,000

**B. Water Quality Projects**

1) Major Collection System Repairs	\$500,000
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2) Sewer Extensions	400,000
3) WWTP Improvements	250,000
4) Rt. 29/Tyreeanna Sewer Study	50,000

Sub-total: \$1,200,000

**Total:** \$13,400,000

#### **Section 4: Status of the “Nine Minimum Controls”**

As required in Part 1, Section E, subsection 1, of the City’s VPDES Permit, the City of Lynchburg is to report the yearly progress of its “**Nine Minimum Controls**” implementation. The following summarizes each of the “Controls” for FY 05.

##### **A. Operation and Maintenance**

- (1) The City Utility sewer maintenance crews routinely clean and inspect sewers in the combined area. Over 243,937 linear feet of sewers were inspected through out the City system in the report year. The City currently operates two TV units. Over 199,470 linear feet of sewers were cleaned.
- (2) A maintenance crew is assigned to inspect all open CSO control points and structures on at least a monthly basis and after heavy rainfalls. A standard form is completed for each control point, indicating current status of the control structure. Depending on extent of needed repair or cleaning, the crew members perform the repairs or request additional assistance.
- (3) The City has one sewage pumping station in its system. It is located at the wastewater treatment plant. The treatment plant station is visually monitored every two hours and it is tied into the plant SCADA system. The treatment plant screens are automated and provide continuous cleaning.
- (4) Hydraulically clean sewers as needed. Refer to item (1) above. Currently, the City has two Vac-tor jet trucks used for cleaning sewers.

##### **B. Use Collection System for Storage**

- (1) Construction of major interceptor sewers is following the CSO Project Priority Listing contained in this report.
- (2) Rehabilitation or replacement of sanitary sewers is following the CSO Project Priority Listing contained in this report. The City is replacing or rehabilitating up to 90% of its sanitary sewer system in the combined areas. The original 1989 CSO Study only called for 20% replacement.
- (3) The standard operating procedure for the treatment plant has been revised to include procedures for increasing the influent rate into the plant during wet weather periods.

The main goal for this procedure is not to overload the secondary clarifiers or cause other exceedances of the VPDES permit.

**C. Pretreatment Program**

- (1) Section 34-66 of the City Code details the City's pretreatment ordinance. It specifically lists the City's enforcement authority over user discharge strength and constituency. The City's Pretreatment Program was adopted in 1985. There are twenty-one permitted customers. With the continued replacement of the City's major interceptors along the heavily industrialized areas of the City, frequency of overflows and subsequent discharges containing industrial waste, have been greatly reduced in the upper reaches of the tributaries of the James River. With the proposed replacement of the James River Interceptor and continued separation of the system, the frequency of overflow will continue to diminish.
- (2) College Hill Water Treatment plant operators have been advised to avoid or minimize the discharge of filter backwash water under wet weather conditions.
- (3) Utilize the Pretreatment Program to limit industrial discharges during wet weather. A specific study of this issue has not been made. However, as stated in C. (1) above, with greater capacities in the interceptor sewers, the frequency of discharge from the Combined Sewer System has been greatly reduced.

**D. Maximize Flow to Wastewater Treatment Plant**

- (1) Construction of major interceptor sewers is following the CSO Project Priority listing contained in this report. The replacement of the JRI has been delayed as noted previously.
- (2) The standard operating procedure for the treatment plant has been revised to include procedures for increasing the influent rate into the plant during wet weather periods. The main goal for this procedure is not to overload the secondary clarifiers or cause other exceedances of the VPDES permit.
- (3) Cleaning of the James River Interceptor continues to be funded on a yearly basis.

**E. Eliminate Dry Weather Overflows**

- (1) The City has in place a Technical Review Process by which all new construction and site plans within the City limits are reviewed by appropriate staff and departments. The staffs responsible for review of proposed utilities are aware of the restriction of construction of no new combined sewers. Any potentially large industrial or commercial sewer customers are required to submit sewer flow need calculations to the staff for review. The City maintains sewer system capacity reports as a reference.
- (2) Routinely inspect diversion weirs at discharge points. Refer to A. (2) above.
- (3) Monitor pumping stations for Dry Weather Overflows (DWO). Refer to A. (3) above.
- (4) Key division personnel are assigned to "on-call duty" 24 hours/day, 7 days/week, to address sewer related issues.

- (5) A Utilities staff engineer is accountable for the reporting and investigation of all DWO discharges. Copies of the notifications are kept on record. A first, verbal notification takes place within 24 hours and a follow-up, written response, within five days.
- (6) As mentioned in B. (2) above, intensive televising of sewers within each project area has lead to the replacement of a greater footage of sewers than that originally programmed.
- (7) Increase capacities in interceptor sewers. Refer to D. (1) above.
- (8) The city is currently working on a FOG program to encourage (require) grease traps to minimize clogs due to grease accumulation in piping.

**F. Control Solids and Floatable Materials in CSO's**

- (1) The City has a Street Sweeping Program that includes the use of three sweepers and one flusher truck. The program divides the city into twenty sections (ten of which are CSO related), the expressway, downtown and the midtown areas, and includes over 580 curb miles. The program was restructured in 1997 to meet the needs of the Combined Sewer Overflow Program. The downtown and midtown sections are swept weekly. The other sections are swept twice a year and the expressway four times a year. Last year, approximately 612 tons of debris was removed from the city and combined area streets.
- (2) The city removes leaves from city streets, gutters, and ditches during its leaf collection program that begins in mid-October and continues city wide through the end of December. Leaf collection in all four wards of the city is completed by the use of eight mechanical vacuum machines pulled by dump trucks; four drum vacuum trucks, one rear loading compactor trucks and other equipment to collect both bagged and loose leaves. Personnel from all divisions of Public Works are used in a coordinated effort to complete the task of collection and disposal. 2,123 tons of leaves were collected in FY05.
- (3) Last year the City's Utility Division cleaned 8,295-drop inlets and repaired 167 throughout the City.
- (4) The City has an on-going Adopt-A-Street program as well as an Adopt-A-Spot program that groups and individual citizens can sign up to participate in. The groups and individuals can sign up for locations that they would like to maintain and keep clean or they will be assigned a location. In these programs, the City provides orange bags, safety vests, litter grabbers, and will pick up the bags of trash and litter. In addition, the City partners with the Citizens for a Clean Lynchburg (CCL) - a non-profit group which provides education and resources to schools and neighborhood groups for preventing litter as well as picking it up on a routine basis. Finally, various Public Works Divisions (Streets, Buildings and Grounds and Waste Management) perform periodic litter collection in the areas that they work in.

**G. Pollution Control**

- (1) The Waste Management Division conducts tours for neighborhood groups, volunteer groups, and city schools as well as interested citizens. During the past five years, the facility has averaged between 20 and 25 tours a year. The Waste Management Division also partners with the City Schools to provide information regarding proper waste management techniques, waste reduction and reuse and recycling efforts. In addition, the Waste Management Division operates a household hazardous waste program (HHW) four times per year (April, June, August and October). The HHW program allows residents to dispose of these types of waste at no charge by bringing their household hazardous waste materials to the landfill for proper disposal.
- (2) The City also collects brush and bulky household items throughout the year. Residents are asked to call and schedule a collection in advance. This service is designed to be customer friendly and to reduce the possibility of littering and illegally dumping of household items.
- (3) As mentioned in item number f. (4), the City has an active on-going Adopt-A-Street program. Currently there are approximately 65 groups that have adopted a street or location in the City of Lynchburg. As part of their commitment, they are required to collect litter and trash along their designated street(s) at least four times yearly. Other groups also volunteer to perform clean-ups at times during the year.
- (4) The City has a recycling program that encourages industrial, commercial and residential recycling of materials. City representatives routinely speak to various industries about methods to reduce, reuse and recycle materials. There are nine designated drop-off recycling sites located throughout the City that allows residents and small businesses to recycling the following materials: mixed paper, newspaper, magazines, aluminum and steel cans, plastics, glass and cardboard materials.
- (5) The City operates a septage receiving station at the wastewater treatment plant and allows free discharge for RVs, both local and travelers to encourage proper disposal of wastes.
- (6) Section 34-11 of the City Code specifically details an ordinance against discharging any material into the sewer system, which may obstruct or impair flow through the system.

**H. Public Notification**

- (1) Signs have been posted at the required locations and are checked periodically.
- (2) The City held a public meeting to invite public comment on its program and for its updated Environmental Assessment for CSO Program Projects on April 24, 2000.
- (3) The City's current policy is to hold a pre-design and post-bid public meeting for each of the individual CSO Separation projects. Public meetings are also held for the Rainleader Disconnect Project whenever a non-Separation construction area is involved. Public meetings have not been held for the interceptor projects. Monthly



newsletters, containing the previous month's accomplishments and preceding months anticipated work activities are distributed to the affected homeowners each month for all types of CSO construction projects.

- (4) The City anticipates spending thousands of dollars each year for media announcements that concern the CSO program. TV ads, infomercials, printed material and short videotape presentations aired on the public television station are used to inform the public about the City's CSO Program. The City has on contract a professional advertising firm to handle its CSO media campaign.
- (5) The City has completed Phase 1 of the RDP and implemented Phase 2 in September 2000.
- (6) The City continues to provide funding for the CSO Citizens Hotline. One- full time and one- part time persons staff it. On average it receives over 200 calls per month on CSO issues ranging from project schedules, complaints and general program information.

#### **I. Monitoring**

- (1) Biosurvey and Fecal Coliform Monitoring results for 2005 will be submitted with the City's November DMR due in your office by December 10th.
- (2) The Utilities Division maintains five rainfall gages dispersed throughout the combined area. The data collected by the gages is used as input to produce the DMR and subsequent volume and loading calculations for CSO overflows.
- (3) The monthly Discharge Monitoring Report (DMR) of the estimated overflow volume for each open CSO, based on actual rainfall events, is updated to reflect CSO closures as they occur. The City continues to staff its CSO Program Office, dedicated to the management of the CSO Program.

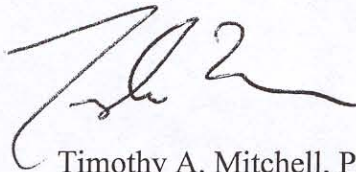
As part of this report, we have enclosed three copies of the overall CSO Program Separation Projects progress map, along with the updated "open" points list.

In closing, the City typically conducts annual bond financing for its capital improvements program in the late January or February timeframe. In conjunction with the bond rating presentations, questions are usually presented regarding the City's compliance with the Special Order. Accordingly, it would be very helpful if the City could receive written confirmation acknowledging compliance with the Special Order by mid -January 2006.

Please call if you have any questions regarding the report or the City's CSO Control Plan implementation efforts.

Mr. Tom Henderson  
November 30, 2005  
Page 10

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Mitchell', with a large, stylized flourish extending from the end.

Timothy A. Mitchell, P. E.  
Director of Utilities

Enclosures

pc: Robert G. Burnley, Director, DEQ  
Walter Gills, CAP Administrator  
L. Kimball Payne, III, City Manager  
Mike Hill, Director of Financial Services  
Gregory Poff, Asst. Director of Utilities



## THE CITY OF LYNCHBURG, VIRGINIA

525 Taylor Street, Lynchburg, VA 24501  
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UTILITIES DIVISION

December 28, 2005

Mr. Tom Henderson, Regional Director  
South Central Regional Office  
Department of Environmental Quality  
7705 Timberlake Road  
Lynchburg, VA 24502

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DEC 29 2005

**DEQ SCRO**

Re: Consent Special Order  
FY 05 CSO Plan Implementation Progress Report


Dear Mr. Henderson:

The City of Lynchburg submits the following information that will complete the City's FY05 Annual Report submission. The complete financial report is enclosed.

Black & Veatch, the City's independent rate consultant, has completed their review of the City's compliance with the financial capability criteria contained in Appendix A of the Order and has found the City in compliance with all required criteria as noted. Their report also shows sums obligated for CSO control implementation as required by paragraph 2 of Appendix A of the Order. Since 1993, \$106,397,460 has been appropriated for CSO control projects, with \$98,665,202 in actual expenditures. The Special Order required the City to increase sewer rates so that the annual sewer bill for a residential customer equals or exceeds 1.25% of median household income (MHI). As of July 1, 2005, the annual sewer bill for a residential customer using 7 hcf was equal to 1.28 % of MHI. In previous years this calculation was based on 9 hcf. Please note that the MHI is estimated in accordance with the procedures stipulated in the Special Order and as documented in Schedule 2 of the attached Black & Veatch Report. These procedures result in a MHI estimate of \$33,200 as of July 1, 2005. This is significantly down from last year's MHI estimate. Also note that due to the 2003 refinancing scheme of existing VRLF debt, we have reached and exceeded the required 1.25% figure due to the down turn in the MHI.

Please contact me or Greg Poff if you have any questions.

Sincerely,

  
Timothy A. Mitchell, P. E.  
Director of Utilities

Copies w/ enclosure:

Robert G. Burnley, Director, DEQ  
L. Kimball Payne, III, City Manager  
Donna Witt, Interim Director of Financial Services  
Gregory L. Poff, Asst. Director of Utilities

December 27, 2005

Mr. Timothy Mitchell  
Director of Utilities  
City of Lynchburg, Virginia  
525 Taylor Street  
Lynchburg, Virginia 24501

**Subject: Annual CSO Compliance Report**

Dear Mr. Mitchell:

As requested, we reviewed the following attached City prepared schedules that we understand will be included in the City's annual Combined Sewer Overflow (CSO) compliance report to the Department of Environmental Quality (DEQ) for the year ended June 30, 2005:

1. Schedule of sewer rates and charges for each of the five years ended June 30, 2005.
2. Calculation of the annual sewer bill as a percentage of Median Household Income (MHI) as of June 30, 2005.
3. Schedule of debt service coverage for each of the five years ended June 30, 2005.
4. Schedule of unrestricted/unreserved cash balance as a percentage of the Fiscal Year (FY) 2006 operating fund budget appropriation as of June 30, 2005.
5. Summary schedule of CSO and other water quality project expenditures.

We performed the following procedures to verify the amounts shown on the attached schedules and calculation:

- Collected and reviewed data required to verify information presented in the City prepared schedules.
- Tested the mathematical accuracy of the City prepared schedules and calculations.
- Compared the schedule of rates and charges included in Schedule 1 to the approved City Council ordinances adopting the rates and charges.
- Compared the MHI amount in 2003 as shown in Schedule 2 to information published by the U.S. Census Bureau.
- Compared the Consumer Price Index (CPI) data shown in Schedule 2 to information published by the U.S. Bureau of Labor Statistics.
- Compared the revenue, revenue requirements, and fund balance amounts included in Schedule 3 and Schedule 4 to the City's audited annual financial statements for the year ended June 30, 2005.

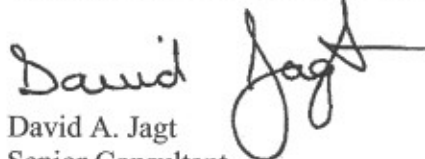
- Compared the amount of the FY 2006 sewer operating fund budget appropriation shown in Schedule 4 to the City's published budget.
- Compared the FY 2005 expenditures shown in Schedule 5 to supporting schedules and to the City's general ledger account balances in the sewer capital and Virginia Revolving Loan Fund (VRLF) funds.

No exceptions were noted, and we therefore conclude that the amounts reported are mathematically accurate and based on information published by independent third parties and/or audited financial statement data.

If you have any questions or comments about our review, we would gladly discuss this matter further.

Very truly yours,

BLACK & VEATCH CORPORATION

  
David A. Jagt  
Senior Consultant

daj  
Enclosures

SCHEDULE 1  
SEWER RATES AND CHARGES

	7/1/01	7/1/02	7/1/03	7/1/04	7/1/05
	\$	\$	\$	\$	\$
Volume rate per hcf	3.70	4.07	4.42	4.60	4.78
Meter charge / customer / month	1.85	1.85	1.85	1.85	1.85
BOD charge / 100 lbs.	15.52	15.52	16.14	16.78	16.78
TSS charge / 100 lbs.	18.25	18.25	18.25	18.98	18.98
Residential septic hauler charge	177.00	177.00	177.00	177.00	177.00
Avg. annual Industrial permit charge	200.00	200.00	200.00	200.00	200.00
Avg. annual Industrial monitoring charge	925.00	925.00	925.00	925.00	850.00
Sewer connection charge	450.00	700.00	770.00	847.00	847.00
Sewer availability fee	1,950.00	1,950.00	1,950.00	1,950.00	1,950.00

## SCHEDULE 2

### CALCULATION OF THE ANNUAL SEWER BILL AS A % OF MHI

ANNUAL SEWER BILL:	7/1/2005
Effective rate @ 7 hcf	\$4.78
Average monthly use in hcf	7
Volume charge	\$33.46
Meter charge	\$1.85
Total monthly sewer bill	\$35.31
	x12
Annual sewer bill	<u><u>\$423.72</u></u>

#### MHI CALCULATION:

2003 MHI reported by the U.S. Census Bureau	\$31,877
Estimate increase in CPI from December 2003 to June 2005 [(194.5 - 184.3) / 184.3 x 0.75]	<u>4.15%</u>
Est. MHI @ July 2005 (\$31,877 x 1.0415)	<u><u>\$33,200</u></u>

ANNUAL SEWER BILL AS A % Estimated MHI  
(\$423.72 / \$33,200)

1.28%



SCHEDULE 3  
DEBT COVERAGE

REVENUES:

	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Sewer charges	\$10,147,441	\$10,498,160	\$11,845,635	\$12,629,154	\$12,490,460
Sewer contracts	2,574,809	3,060,055	2,206,274	1,766,288	2,697,747
Interest and other	196,248	227,971	241,847	139,070	169,797
	<u>12,918,498</u>	<u>13,786,186</u>	<u>14,293,756</u>	<u>14,534,512</u>	<u>15,358,004</u>

O&M EXPENSES:

Sewer line maintenance	944,914	809,523	1,185,414	1,326,711	954,692
Waste water treatment	2,965,207	2,923,915	3,875,488	3,704,351	3,553,135
Payments to Water Fund	343,724	460,000	460,000	500,000	510,000
General Fund overhead	953,935	810,845	158,759	347,841	962,275
Project costs charged to operations	-	23,657	53,233	26,427	33,925
All other	381,990	255,658	0	703,268	105,112
	<u>5,589,770</u>	<u>5,283,598</u>	<u>5,732,894</u>	<u>6,608,598</u>	<u>6,119,139</u>

NET REVENUES

<u>\$7,328,728</u>	<u>\$8,502,588</u>	<u>\$8,560,862</u>	<u>\$7,925,914</u>	<u>\$9,238,865</u>
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DEBT SERVICE

<u>\$6,016,177</u>	<u>\$6,458,655</u>	<u>\$7,040,471</u>	<u>\$5,955,878</u>	<u>\$6,797,788</u>
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DEBT COVERAGE

<u>1.22</u>	<u>1.32</u>	<u>1.22</u>	<u>1.33</u>	<u>1.36</u>
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Note:

1. All other in FY 2004 includes the costs to clean the James River Interceptor.



SCHEDULE 4

UNRESTRICTED/UNRESERVED CASH BALANCE AS A PERCENTAGE OF FY 2006 SEWER OPERATING FUND APPROPRIATION

Total Sewer Fund Cash & Investments	\$ 6,909,395
Less amounts restricted & reserved for:	
--unexpended bond funds that are reserved for sewer capital projects	-
--cash balances earmarked for sewer capital projects	<u>(2,584,465)</u>
Unrestricted/unreserved cash & investments at June 30, 2005	<u>\$ 4,324,930</u>
FY2006 Sewer Operating Fund Budget Appropriation	<u>\$ 13,052,579</u>
Unrestricted/unreserved cash & investments at June 30, 2005 as a % of FY 2006 Sewer Operating Fund Budget Appropriation	<u>33.13% Note 1</u>

Note 1: Typically the City conducts annual bond sales in the latter part of each fiscal year. The bond issue scheduled for FY 2004 was not brought to market until July 2005. Because of this timing only one semi annual principal and interest payment was made in FY 2005 which produced some unplanned cash surplus. In addition, one of the City's largest industrial customers doubled their billable consumption as compared to the projected estimate. The surplus above the 25% threshold will be factored into the next Capital Improvements Program.

## SCHEDULE 5

### SUMMARY OF CSO AND OTHER WATER QUALITY PROJECTS EXPENDITURES

	CSO	Water Quality	Total
FY 1994 expenditures	\$ 1,189,163	\$ 3,717,999	\$ 4,907,162
FY 1995 expenditures	3,741,404	2,281,684	6,023,088
FY 1996 expenditures	4,848,024	5,273,630	10,121,654
FY 1997 expenditures	13,785,402	4,956,604	18,742,006
FY 1998 expenditures	12,891,319	10,040,200	22,931,519
FY 1999 expenditures	7,487,039	8,515,561	16,002,600
FY 2000 expenditures	12,090,153	2,681,055	14,771,208
FY 2001 expenditures	10,683,348	2,064,347	12,747,695
FY 2002 expenditures	9,635,917	3,240,617	12,876,534
FY 2003 expenditures	5,228,115	586,812	5,814,927
FY 2004 expenditures	8,124,121	823,214	8,947,335
FY 2005 expenditures	8,961,197	585,532	9,546,729
Unexpended authorization	3,813,659	1,158,915	4,972,574
Appropriations to be authorized	3,918,599	569,315	4,487,914
Totals	\$ 106,397,460	\$ 46,495,485	\$ 152,892,945

**Note:**

Appropriations to be authorized represent approved CIP amounts that have not been authorized for specific projects as of June 30, 2005.